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ABSTRACT OF THE DISCLOSURE

A method of manufacturing a thin-film solar cell, comprising the steps of: forming an amorphous silicon film on a substrate; holding a metal element that accelerates the crystallization of silicon in contact  
5 with the surface of the amorphous silicon film; subjecting the amorphous silicon film to a heat treatment to obtain a crystalline silicon film; depositing a silicon film to which phosphorus has been added in close contact with the crystalline silicon film; and subjecting the crystalline silicon film and the silicon film to which phosphorus has been added to a  
10 heat treatment.

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